Modbus Register
GSx440sc

V 1.00

HACH®

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Name	Register	Data Type	Length	Access Mode	Discrete Range	Min / Max	Description
H2S IN LIQUID	40001	Float	2	R	mg /l	H2S	
H2S IN GAS	40003	Float	2	R	ppm	H2S	
TEMPERATURE	40005	Float	2	R	C		
SensorName6	40007	String	6	R/W			
SoftwareVersion	40015	Float	2	R			
SerialNumber	40017	String	6	R			
LIQUID INTERVAL	40023	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8/9/10/11/12
GAS INTERVAL	40024	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8/9/10/11/12
TEMP INTERVAL	40025	Unsigned Integer	1	R/W			0/1/2/3/4/5/6/7/8/9/10/11/12
ProdDate	40026	Time2	2	R/W			
DeviceDriver	40028	Unsigned Integer	1	R			
BootVersion	40029	Float	2	R			
SIGNAL AVERAGE	40031	Unsigned Integer	1	R/W			
OutputMode	40032	Unsigned Integer	1	R/W			0/1/2
CAL DAYS	40033	Unsigned Integer	1	R	days		
CAL WARNING DAYS	40034	Unsigned Integer	1	R/W	days		
LAST CAL DATE	40035	Time2	2	R			
H2S LIQUID LIMIT	40037	Float	2	R/W	mg /l	H2S	
H2S AIR LIMIT	40039	Float	2	R/W	ppm	H2S	
SENSOR SN	40041	String	6	R			
SOFT VERSION	40047	String	6	R			
SENSOR PRODUCT TYPE	40053	String	6	R			
SENSOR ERROR CODE	40059	Unsigned Integer	1	R			
BOARD TEMP	40060	Float	2	R/W	C		
ON HOURS	40062	Unsigned Integer	2	R	h		
STATUS	40064	String	6	R			
SLOPE DATE	40070	String	8	R			
ERROR CNT	40078	Unsigned Integer	1	R			

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ALL Sensors and Analyzer: Classified ERROR Word - Register 49930

Table 2 Error register

Bit	Error	Description
0	Calibration error	Faulty calibration detected
1	Electronic settings error	Faulty electronic calibration/settings
2	Cleaning error	Error in cleaning cycle detected
3	Measuring module error	Error in measuring module detected
4	System initialization	Inconsistent settings detected, reset to factory settings
5	Hardware error	Faulty hardware detected
6	Internal communication error	Internal communication error detected
7	Humidity error	Excessive humidity detected
8	Excessive temperature	Excessive temperature detected
9		
10	Sample feed warning	Error in sample feed detected
11	Questionable calibration warning	Accuracy of previous calibration inadequate
12	Questionable measurement warning	Accuracy of previous measurement inadequate/out of range
13	Safety warning	Safety equipment error detected
14	Reagent warning	Reagent warning, e.g. fill level < min detected
15	Service request warning	Service request detected

ALL Sensors and Analyzer: Classified STATUS Word - Register 49931

Table 3 Status register

Bit	Status 1	Description
0	Calibration activated	Calibration in progress, measurement value not up to date
1	Cleaning activated	Cleaning in progress, measurement value not up to date
2	Service mode activated	Device in "Service" mode, measurement value not up to date
3	General error message	General error detected, refer to error text for details
4	Measurement value channel 0, poor quality	Measurement accuracy is not within specified limits
5	Measurement value channel 0, range short-fall	Measurement value falls short of the specified range
6	Measurement value channel 0, range exceeded	Measurement value exceeds the specified range
7	Measurement value channel 1, poor quality	Measurement accuracy is not within specified limits
8	Measurement value channel 1, range short-fall	Measurement value falls short of the specified range
9	Measurement value channel 1, range exceeded	Measurement value exceeds the specified range
10	Measurement value channel 2, poor quality	Measurement accuracy is not within specified limits
11	Measurement value channel 2, range short-fall	Measurement value falls short of the specified range
12	Measurement value channel 2, range exceeded	Measurement value exceeds the specified range
13	Measurement value channel 3, poor quality	Measurement accuracy is not within specified limits
14	Measurement value channel 3, range short-fall	Measurement value falls short of the specified range
15	Measurement value channel 3, range exceeded	Measurement value exceeds the specified range